

CITY OF NEWTON, MASSACHUSETTS  
PURCHASING DEPARTMENT  
COMPARISON OF BIDS

INVITATION #17-61  
Needham Street / Oak Street / Christina Street Intersection Improvements Project

Bid Opening: February 16, 2017 at 10:30 a.m.  
Public Works/Engineering - Lou Taverna

**Bidders**

Needham Street / Oak Street / Christina Street Intersection Improvements Project

<b>I.W. Harding Construction</b>	<b>A.R. Belli, Inc.</b>
<b>\$1,539,952.30</b>	<b>\$1,912,553.00</b>

\_\_\_\_\_  
Department Head Date

\_\_\_\_\_  
Chief Procurement Officer Date

\_\_\_\_\_  
Mayor or his designee Date

NOTES REGARDING SUBMITTED BIDS
TOTAL CORRECTED BY EXCEL

Bidders	QTY	UNIT	I.W. Harding Construction		A.R. Belli, Inc.	
ITEM DESCRIPTION & BID PRICE			Unit Price	Annual	Unit Price	Annual
SCHEDULE OF OPERATIONS – FIXED PRICE B41,000 (MASSDOT #100.)	1	LS	\$8,000.00		\$8,000.00	
CLEARING AND GRUBBING (MASSDOT #101.)	0.3	A	\$8,000.00	\$2,400.00	\$28,000.00	\$8,400.00
CONTROL OF INVASIVE PLANTS EXISTING ON SITE (MASSDOT #102.3)	24	HR	\$250.00	\$6,000.00	\$288.00	\$6,912.00
INVASIVE PLANT MANAGEMENT STRATEGY (MASSDOT #102.33)	24	HR	\$125.00	\$3,000.00	\$145.00	\$3,480.00
INDIVIDUAL TREE PROTECTION (MASSDOT #102.51)	11	EA	\$600.00	\$6,600.00	\$278.00	\$3,058.00
TEMPORARY TREE PROTECTION FENCE (MASSDOT #102.52)	235	FT	\$12.00	\$2,820.00	\$8.00	\$1,880.00
TREE REMOVED – DIAMETER UNDER 24 INCHES (MASSDOT #103.)	5	EA	\$1,300.00	\$6,500.00	\$700.00	\$3,500.00
TREE REMOVED – DIAMETER 24 INCHES AND OVER (MASSDOT #104.)	1	EA	\$2,000.00	\$2,000.00	\$1,700.00	\$1,700.00
UNCLASSIFIED EXCAVATION (MASSDOT #120.1)	3470	CY	\$25.00	\$86,750.00	\$45.00	\$156,150.00
CLASS A TRENCH EXCAVATION (MASSDOT #141.)	330	CY	\$0.01	\$3.30	\$49.00	\$16,170.00
TEST PIT FOR EXPLORATION (MASSDOT #141.1)	75	CY	\$200.00	\$15,000.00	\$79.00	\$5,925.00
CLASS B TRENCH EXCAVATION (MASSDOT #142.)	20	CY	\$0.01	\$0.20	\$25.00	\$500.00
CLASS B ROCK EXCAVATION (MASSDOT #144.)	25	CY	\$250.00	\$6,250.00	\$229.00	\$5,725.00
DRAINAGE STRUCTURE ABANDONED (MASSDOT #145.)	1	EA	\$1,200.00	\$1,200.00	\$450.00	\$450.00
DRAINAGE STRUCTURE REMOVED (MASSDOT #146.)	7	EA	\$1,000.00	\$7,000.00	\$459.00	\$3,213.00
ORDINARY BORROW (MASSDOT #150.)	50	CY	\$1.00	\$50.00	\$7.00	\$350.00
GRAVEL BORROW (MASSDOT #151.)	1555	CY	\$1.00	\$1,555.00	\$7.00	\$10,885.00
GRAVEL BORROW FOR BACKFILLING STRUCTURES AND PIPES (MASSDOT #151.2)	155	CY	\$1.00	\$155.00	\$39.00	\$6,045.00
CRUSHED STONE (MASSDOT #156.)	75	TON	\$14.00	\$1,050.00	\$28.00	\$2,100.00
FINE GRADING AND COMPACTING (MASSDOT #170.)	5350	SY	\$9.00	\$48,150.00	\$10.00	\$53,500.00
MONITORING WELL ADJUSTED (MASSDOT #192.6)	1	EA	\$1,000.00	\$1,000.00	\$450.00	\$450.00
CATCH BASIN (MASSDOT #201.)	6	EA	\$4,000.00	\$24,000.00	\$4,778.00	\$28,668.00
SPECIAL CATCH BASIN – SHALLOW COVER (MASSDOT #201.31)	5	EA	\$5,000.00	\$25,000.00	\$4,885.00	\$24,425.00
MANHOLE (MASSDOT #202.)	2.2	EA	\$4,000.00	\$8,800.00	\$5,135.00	\$11,297.00
SPECIAL MANHOLE – DEEP SUMP (MASSDOT #203.1)	1	EA	\$25,000.00	\$25,000.00	\$7,800.00	\$7,800.00
GUTTER INLET (MASSDOT #204.)	1	EA	\$2,900.00	\$2,900.00	\$2,700.00	\$2,700.00
DRAINAGE STRUCTURE ADJUSTED (MASSDOT #220.)	22	EA	\$500.00	\$11,000.00	\$369.00	\$8,118.00
DRAINAGE STRUCTURE CHANGE IN TYPE (MASSDOT #220.3)	1	EA	\$2,500.00	\$2,500.00	\$1,400.00	\$1,400.00
SANITARY STRUCTURE ADJUSTED (MASSDOT #220.7)	3	EA	\$500.00	\$1,500.00	\$369.00	\$1,107.00
FRAME AND COVER (MASSDOT #221.)	12	EA	\$400.00	\$4,800.00	\$669.00	\$8,028.00
FRAME AND GRATE – MASSDOT CASCADE TYPE (MASSDOT #222.1)	7	EA	\$400.00	\$2,800.00	\$678.00	\$4,746.00
FRAME AND GRATE (OR COVER) MUNICIPAL STANDARD (MASSDOT #222.3)	6	EA	\$400.00	\$2,400.00	\$669.00	\$4,014.00
FRAME AND GRATE (OR COVER) REMOVED AND STACKED (MASSDOT #223.1)	20	EA	\$250.00	\$5,000.00	\$25.00	\$500.00
12 INCH HOOD (MASSDOT #224.12)	13	EA	\$200.00	\$2,600.00	\$288.00	\$3,744.00
REMOVAL OF DRAINAGE STRUCTURE SEDIMENT (MASSDOT #227.3)	10	CY	\$250.00	\$2,500.00	\$277.00	\$2,770.00
REMOVAL OF DRAINAGE PIPE SEDIMENT (MASSDOT #227.31)	120	FT	\$10.00	\$1,200.00	\$10.00	\$1,200.00
MASONRY PLUG (MASSDOT #227.4)	5	SF	\$0.01	\$0.05	\$100.00	\$500.00
12 INCH DUCTILE IRON PIPE (MASSDOT #238.12)	220	FT	\$115.00	\$25,300.00	\$197.00	\$43,340.00
12 INCH REINFORCED CONCRETE PIPE (MASSDOT #241.12)	15	FT	\$115.00	\$1,725.00	\$169.00	\$2,535.00
15 INCH REINFORCED CONCRETE PIPE (MASSDOT #241.15)	35	FT	\$93.00	\$3,255.00	\$179.00	\$6,265.00
STONE FOR PIPE ENDS (MASSDOT #258.)	10	SY	\$50.00	\$500.00	\$77.00	\$770.00
6 INCH GATE BOX (MASSDOT #357.06)	2	EA	\$71.00	\$142.00	\$275.00	\$550.00
16 INCH GATE BOX (MASSDOT #357.16)	2	EA	\$71.00	\$142.00	\$275.00	\$550.00
GATE BOX ADJUSTED (MASSDOT #358.)	7	EA	\$400.00	\$2,800.00	\$169.00	\$1,183.00
SERVICE BOX (MASSDOT #381.)	3	EA	\$32.00	\$96.00	\$159.00	\$477.00
SERVICE BOX ADJUSTED (MASSDOT #381.3)	3	EA	\$400.00	\$1,200.00	\$159.00	\$477.00
DENSE GRADED CRUSHED STONE FOR SUB-BASE (MASSDOT #402.)	475	CY	\$25.00	\$11,875.00	\$69.00	\$32,775.00
PAVEMENT MICROMILLING(MASSDOT #415.)	1225	SY	\$10.00	\$12,250.00	\$8.00	\$9,800.00
HIGH EARLY STRENGTH CEMENT CONCRETE BASE COURSE (MASSDOT #431.)	60	SY	\$250.00	\$15,000.00	\$95.00	\$5,700.00

Bidders			I.W. Harding Construction		A.R. Belli, Inc.	
			Unit Price	Annual	Unit Price	Annual
ITEM DESCRIPTION & BID PRICE						
CALCIUM CHLORIDE FOR ROADWAY DUST CONTROL (MASSDOT #440.)	23900	LB	\$0.20	\$4,780.00	\$0.79	\$18,881.00
WATER FOR ROADWAY DUST CONTROL (MASSDOT #443.)	16	MGL	\$50.00	\$800.00	\$100.00	\$1,600.00
CONTRACTOR QUALITY CONTROL (MASSDOT #450.90)	1720	TON	\$3.25	\$5,590.00	\$4.00	\$6,880.00
HMA FOR PATCHING (MASSDOT #451.)	20	TON	\$250.00	\$5,000.00	\$275.00	\$5,500.00
ASPHALT EMULSION FOR TACK COAT	470	GAL	\$6.00	\$2,820.00	\$10.00	\$4,700.00
HMA JOINT SEALANT (MASSDOT #453.)	4350	FT	\$0.72	\$3,132.00	\$1.20	\$5,220.00
SUPERPAVE SURFACE COURSE - 9.5 (SSC-9.5) (MASSDOT #455.22)	425	TON	\$86.50	\$36,762.50	\$149.00	\$63,325.00
SUPERPAVE INTERMEDIATE COURSE - 12.5 (SIC-12.5) (MASSDOT #455.31)	425	TON	\$79.25	\$33,681.25	\$149.00	\$63,325.00
SUPERPAVE BASE COURSE - 37.5 (SBC-37.5) (MASSDOT #455.42)	850	TON	\$77.70	\$66,045.00	\$119.00	\$101,150.00
WARM MIX ASPHALT PAVEMENT (MASSDOT #456.)	1805	TON	\$3.15	\$5,685.75	\$3.00	\$5,415.00
HOT MIX ASPHALT BERM, TYPE A - MODIFIED (MASSDOT #470.2)	160	FT	\$19.40	\$3,104.00	\$15.00	\$2,400.00
HOT MIX ASPHALT FOR MISCELLANEOUS WORK (MASSDOT #472.)	185	TON	\$220.00	\$40,700.00	\$185.00	\$34,225.00
SAWCUTTING ASPHALT PAVEMENT (MASSDOT #482.3)	440	FT	\$3.00	\$1,320.00	\$5.00	\$2,200.00
SAWCUTTING PORTLAND CEMENT CONCRETE (MASSDOT #482.4)	10	FT	\$100.00	\$1,000.00	\$7.00	\$70.00
GRANITE CURB TYPE VB – STRAIGHT (MASSDOT #506.)	280	FT	\$31.00	\$8,680.00	\$39.90	\$11,172.00
GRANITE CURB TYPE VB – CURVED (MASSDOT #506.1)	230	FT	\$38.00	\$8,740.00	\$39.90	\$9,177.00
GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS – STRAIGHT (MASSDOT #509.)	115	FT	\$38.00	\$4,370.00	\$43.00	\$4,945.00
GRANITE TRANSITION CURB FOR WHEELCHAIR RAMPS – CURVED (MASSDOT #509.1)	110	FT	\$42.00	\$4,620.00	\$56.60	\$6,226.00
GRANITE CURB INLET - STRAIGHT (MASSDOT #514.)	8	EA	\$400.00	\$3,200.00	\$339.00	\$2,712.00
GRANITE CURB INLET - CURVED (MASSDOT #515.)	2	EA	\$450.00	\$900.00	\$372.00	\$744.00
CURB REMOVED AND RESET (MASSDOT #580.)	885	FT	\$28.00	\$24,780.00	\$29.00	\$25,665.00
CURB REMOVED AND STACKED (MASSDOT #590.)	140	FT	\$25.00	\$3,500.00	\$5.00	\$700.00
CURB REMOVED AND DISCARDED (MASSDOT #594.)	435	FT	\$18.00	\$7,830.00	\$44.00	\$19,140.00
STEEL W BEAM HIGHWAY GUARD (SINGLE FACED) (MASSDOT #620.1)	440	FT	\$24.00	\$10,560.00	\$28.25	\$12,430.00
STEEL W BEAM HIGHWAY GUARD – CURVED (SINGLE FACED) (MASSDOT #620.3)	135	FT	\$24.00	\$3,240.00	\$28.25	\$3,813.75
STEEL W BEAM TERMINAL SECTION (SINGLE FACED) (MASSDOT #627.1)	10	EA	\$140.00	\$1,400.00	\$129.00	\$1,290.00
48 INCH CHAIN LINK FENCE (PTR) VINYL COATED (LINE POST OPT.) (MASSDOT #645.148)	45	FT	\$48.00	\$2,160.00	\$56.00	\$2,520.00
PEDESTRIAN GUIDANCE SYSTEM AT WORK ZONES (MASSDOT #657.1)	800	FT	\$50.00	\$40,000.00	\$35.00	\$28,000.00
METAL PIPE RAIL (MASSDOT #660.)	50	FT	\$80.00	\$4,000.00	\$277.00	\$13,850.00
CHAIN LINK FENCE REMOVED AND STACKED (MASSDOT #665.)	350	FT	\$4.20	\$1,470.00	\$4.85	\$1,697.50
FENCE REMOVED AND STACKED (MASSDOT #669.)	100	FT	\$14.60	\$1,460.00	\$16.90	\$1,690.00
FENCE REMOVED AND RESET (MASSDOT #670.)	375	FT	\$51.00	\$19,125.00	\$60.00	\$22,500.00
STONE MASONRY WALL IN CEMENT MORTAR (MASSDOT #685.)	135	CY	\$550.00	\$74,250.00	\$717.00	\$96,795.00
MODULAR BLOCK RETAINING WALL (MASSDOT #693.)	165	SF	\$83.00	\$13,695.00	\$69.00	\$11,385.00
SILT SACK (MASSDOT #697.1)	14	EA	\$100.00	\$1,400.00	\$288.00	\$4,032.00
GEOTEXTILE FABRIC FOR SEPARATION (MASSDOT #698.3)	50	SY	\$5.00	\$250.00	\$69.00	\$3,450.00
CEMENT CONCRETE SIDEWALK (MASSDOT #701.)	850	SY	\$36.00	\$30,600.00	\$85.00	\$72,250.00
CEMENT CONCRETE SIDEWALK AT DRIVEWAYS (MASSDOT #701.1)	75	SY	\$36.00	\$2,700.00	\$95.00	\$7,125.00
	145	SY	\$45.00	\$6,525.00	\$95.00	\$13,775.00
HOT MIX ASPHALT DRIVEWAY (MASSDOT #703.)	85	TON	\$245.00	\$20,825.00	\$185.00	\$15,725.00
BOUND – PLAIN GRANITE (MASSDOT #710.4)	15	EA	\$400.00	\$6,000.00	\$445.00	\$6,675.00
BOUND REMOVED AND RESET (MASSDOT #711.)	4	EA	\$400.00	\$1,600.00	\$450.00	\$1,800.00

Bidders			I.W. Harding Construction		A.R. Belli, Inc.	
			Unit Price	Annual	Unit Price	Annual
ITEM DESCRIPTION & BID PRICE						
ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A) (MASSDOT #740.)	14	MO	\$1.00	\$14.00	\$3,178.00	\$44,492.00
MOBILIZATION (MASSDOT #748.)	1	LS	\$44,000.00	\$44,000.00	\$39,900.00	\$39,900.00
LOAM BORROW (MASSDOT #751.)	340	CY	\$38.00	\$12,920.00	\$57.00	\$19,380.00
NPDES STORMWATER POLLUTION PREVENTION PLAN (MASSDOT #756.)	1	LA	\$30,000.00	\$30,000.00	\$17,700.00	\$17,700.00
SEEDING (MASSDOT #765.)	2090	SY	\$1.50	\$3,135.00	\$1.50	\$3,135.00
SEEDING – INFILTRATION SWALEMASSDOT #765.456)	280	SY	\$2.00	\$560.00	\$2.60	\$728.00
SEEDING WILDFLOWER (MASSDOT #765.8)	115	SY	\$2.00	\$230.00	\$2.60	\$299.00
COMPOST FILTER TUBES (MASSDOT #767.12)	1080	FT	\$5.00	\$5,400.00	\$6.40	\$6,912.00
STRAW MULCH (MASSDOT #767.12)	395	SY	\$0.80	\$316.00	\$0.95	\$375.25
COMPOSTED MULCH FOR RIP RAP (MASSDOT #767.77)	75	SY	\$6.00	\$450.00	\$9.20	\$690.00
PAVEMENT MILLING MULCH UNDER GUARD RAIL (MASSDOT #769.)	575	FT	\$6.00	\$3,450.00	\$6.90	\$3,967.50
SPRUCE - WHITE 7-8 FEET (MASSDOT #774.642)	1	EA	\$480.00	\$480.00	\$577.00	\$577.00
SPRUCE - RED 7-8 FEET (MASSDOT #774.652)	2	EA	\$500.00	\$1,000.00	\$552.00	\$1,104.00
ASH GREEN 2.5-3 INCH CALIPER (MASSDOT #775.005)	1	EA	\$830.00	\$830.00	\$938.00	\$938.00
SHAD TREE – ALLEGHENY CLUMP 8-10 FEET (MASSDOT #783.041)	3	EA	\$600.00	\$1,800.00	\$677.00	\$2,031.00
DOGWOOD – REDOSIER 2-3 FEET (MASSDOT #790.633)	18	EA	\$55.00	\$990.00	\$58.00	\$1,044.00
VIBURNUM – NANNYBERRY – MALE 2-3 FEET (MASSDOT #795.070)	3	EA	\$70.00	\$210.00	\$72.00	\$216.00
WINTERBERRY – MALE 2-3 FEET (MASSDOT #795.154)	2	EA	\$60.00	\$120.00	\$64.00	\$128.00
WINTERBERRY – FEMALE 2-3 FEET (MASSDOT #795.158)	6	EA	\$60.00	\$360.00	\$64.00	\$384.00
3-INCH ELECTRICAL CONDUIT TYPE NM – PLASTIC - (UL) (MASSDOT #804.3)	1050	FT	\$36.00	\$37,800.00	\$49.00	\$51,450.00
MAINTENANCE OF GREATER BOSTON ERUV (MASSDOT #810.002)	1	LS	\$1.00	\$1.00	\$28,000.00	\$28,000.00
PULL BOX 12 X 12 INCHES - SD2.031 (MASSDOT #811.31)	22	EA	\$650.00	\$14,300.00	\$778.00	\$17,116.00
ADAPTIVE SIGNAL CONTROL TECHNOLOGY (MASSDOT #815.925)	1	LS	\$55,000.00	\$55,000.00	\$66,000.00	\$66,000.00
TRAFFIC SIGNAL RECONSTRUCTION LOCATION NO. 1 (MASSDOT #816.01)	1	LS	\$240,000.00	\$240,000.00	\$201,240.00	\$201,240.00
ROADSIDE GUIDE SIGN AND SUPPORT (D6/D8) REMOVED AND DISCARDED (MASSDOT #829.07)	1	EA	\$350.00	\$350.00	\$500.00	\$500.00
ROADSIDE GUIDE SIGN (D6/D8) – ALUMINUM PANEL (TYPE A) (MASSDOT #831.)	30	SF	\$12.00	\$360.00	\$23.00	\$690.00
WARNING-REGULATORY AND ROUTE MARKER – ALUM. PANEL (TYPE A) (MASSDOT #832.)	170	SF	\$7.00	\$1,190.00	\$16.00	\$2,720.00
DEMOUNTABLE REFLECTORIZED DELINEATOR – GUARDRAIL (MASSDOT #833.5)	25	EA	\$5.00	\$125.00	\$7.00	\$175.00
DELINEATION FOR GUARD RAIL TERMINI (MASSDOT #833.7)	10	EA	\$29.00	\$290.00	\$7.00	\$70.00
– SUPPORTS FOR GUIDE SIGN (1-2A – 5 INCH TUBULAR POST) STEEL (MASSDOT #841.6)	1	EA	\$1,400.00	\$1,400.00	\$2,700.00	\$2,700.00
SIGN SUP. (N/GUIDE) + RTE MKR W/1 BRKWAY POST ASSEMBLY - STEEL (MASSDOT #847.1)	17	EA	\$68.00	\$1,156.00	\$69.00	\$1,173.00
SAFETY SIGNING FOR TRAFFIC MANAGEMENT (MASSDOT #852.)	600	SF	\$15.00	\$9,000.00	\$18.85	\$11,310.00
PORTABLE BREAKAWAY BARRICADE TYPE III (MASSDOT #853.1)	5	EA	\$110.00	\$550.00	\$10.00	\$50.00
TEMPORARY ILLUMINATION FOR WORK ZONE (MASSDOT #853.8)	50	DAY	\$1.00	\$50.00	\$115.00	\$5,750.00
TEMPORARY PAVING MARKINGS - ARROW AND LEGENDS (PAINTED) (MASSDOT #854.01)	650	SF	\$1.95	\$1,267.50	\$4.00	\$2,600.00
TEMPORARY PAVING MARKINGS – 6 INCH (PAINTED) (MASSDOT #854.016)	5000	FT	\$0.18	\$900.00	\$1.00	\$5,000.00
TEMPORARY PAVING MARKINGS – 6-INCH (TAPE) (MASSDOT #854.036)	5000	FT	\$2.70	\$13,500.00	\$1.15	\$5,750.00
PAVEMENT MARKING REMOVAL (MASSDOT #854.1)	3500	SF	\$1.15	\$4,025.00	\$2.00	\$7,000.00
ARROW BOARD (MASSDOT #856.)	400	DAY	\$8.00	\$3,200.00	\$10.00	\$4,000.00
PORTABLE CHANGEABLE MESSAGE SIGN (MASSDOT #856.12)	300	DAY	\$18.00	\$5,400.00	\$23.00	\$6,900.00
REFLECTORIZED DRUM (MASSDOT #859.)	6000	DAY	\$0.19	\$1,140.00	\$0.25	\$1,500.00
PAVEMENT ARROW AND LEGENDS REFL. WHITE (THERMOPLASTIC) (MASSDOT #864.04)	325	SF	\$8.85	\$2,876.25	\$12.00	\$3,900.00
6 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC) (MASSDOT #866.106)	2500	FT	\$0.75	\$1,875.00	\$1.00	\$2,500.00
12 INCH REFLECTORIZED WHITE LINE (THERMOPLASTIC) (MASSDOT #866.112)	600	FT	\$2.35	\$1,410.00	\$3.00	\$1,800.00
6 INCH REFLECTORIZED YELLOW LINE (THERMOPLASTIC) (MASSDOT #867.106)	2050	FT	\$0.75	\$1,537.50	\$1.00	\$2,050.00
STREET NAME SIGN (MASSDOT #874.)	4	EA	\$230.00	\$920.00	\$70.00	\$280.00
TRAFFIC SIGN REMOVED AND STACKEDMASSDOT #874.4)	15	EA	\$25.00	\$375.00	\$10.00	\$150.00
TRAFFIC SIGN REMOVED AND DISCARDED (MASSDOT #874.41)	14	EA	\$25.00	\$350.00	\$10.00	\$140.00
4000 PSI, 1.5 IN, 565 CEMENT CONCRETE(MASSDOT #901.)	4.5	CY	\$3,500.00	\$15,750.00	\$888.00	\$3,996.00
STEEL REINFORCEMENT FOR STRUCTURES – EPOXY COATED (MASSDOT #910.1)	220	LB	\$1.00	\$220.00	\$10.00	\$2,200.00
MODIFIED ROCK FILL (MASSDOT #983.5)	65	TON	\$20.00	\$1,300.00	\$59.00	\$3,835.00
POLICE (Reimbursement)	ALLOWANCE		\$96,000.00		\$96,000.00	
<b>TOTAL BID</b>			<b>\$1,539,952.30</b>		<b>\$1,912,553.00</b>	